

## Lab Framework

**Text:**CORD

**Unit number and title:** Unit 3 Measuring In English & Metric Units

**Short Description:** Calculate board footage and cost analysis

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### Lab Title Ohms Law Worksheet

#### LAB PLAN

**TEACHER:** Teacher Prep/ Lesson Plan

- **Lab Objective**  
Teach students the basic theory of electricity and Ohms law
- **Statement of pre-requisite skills needed** (i.e., vocabulary, measurement techniques, formulas, etc.)
  - Addition
  - Multiplication
  - Division
  - Fractions
  - Calculator
- **Vocabulary**
  - Current
  - Voltage
  - Resistance
  - Power
- **Materials List**
  - Pencil
  - Calculator
  - Electricity Ohms Law worksheet
  - Handouts
- **GLEs (State Standards) addressed**
  - Math: 1.1.1, 1.1.2, 1.1.3
  - Reading: 1.2.2, 1.3.2
  - Writing: 1.1.1, 1.2.1
- **Set-up information**  
Students will each be sitting at a workstation, 2 per station. They will all handouts, calculator and pencil.
- **Teacher Assessment of student learning** (scoring guide, rubric)  
After lab, students will be required to take a short quiz on information covered in lab.
- **Summary of learning** (to be finished after student completes lab)  
Discussion will take place after lab, review for previous days lesson, check for understanding, cover any items that weren't clear.

- **Optional activities**

At the end of this lesson, have students write a brief reflection of the activity.

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**LAB TITLE: Ohms Law Worksheet**

**STUDENT INSTRUCTIONS:**

- **Statement of problem addressed by lab**  
Teaching students the basic theory of Ohms law and the relationship between volts, amps and resistance
- **Grouping instructions and roles**  
Students will be place in groups of 2.
- **Procedures** – steps to follow/instructions  
Brief overview of previous days discussion on Ohms law  
Practice mathematical measurements as a group on the whiteboard  
Hand out worksheet and have students complete  
Grade worksheets as a class.
- **Outcome instructions**  
Students will have basic knowledge of Ohms law and the relationship between volts, amps and resistance.
- **Assessment instructions** (peer-teacher)  
All worksheets will be graded as a class. Students will then write a short paragraph on how they felt the lab went, If there was anything I could have covered more.

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## Lab Data Collection

Student: \_\_\_\_\_ Date: \_\_\_\_\_

Unit: \_\_\_\_\_

Lab Title:

Criteria: Write the problem/objective in statement form

Data Collection: Record the collected/given data

Calculations: Complete the given calculations to solve for an answer(s)

Summary Statement:

Other Assessment(s)

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